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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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| **Applicant:** | Adam J. Katz et al. | **Examiner:** | Not yet known |
| **Serial No.:** | 09/936,665 | **Group Art Unit:** | 1642 |
| **Filed:** | September 10, 2001 | **Docket No.:** | 30448.77USW1 |
| **Title:** | ADIPOSE-DERIVED STEM CELLS AND LATTICES | | |

CERTIFICATE UNDER 37 CFR 1.8:
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on July 29, 2002.

Renato Marco P. Domingo

By: Renato Marco P. Domingo

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(b)(3))

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner. They are as follows:

- U.S. Patent No. 5,226,914 issued July 13, 1993 – **Exhibit 19**
- U.S. Patent No. 5,736,396 issued April 7, 1998 – **Exhibit 20**
- U.S. Patent No. 5,811,094 issued September 22, 1998 – **Exhibit 21**
- U.S. Patent No. 5,817,050 issued October 6, 1998 – **Exhibit 22**
- U.S. Patent No. 5,908,784 issued June 1, 1999 – **Exhibit 23**
- International Publication No. WO97/18299 published May 22, 1997 – **Exhibit 24**
- International Publication No. WO97/39104 published October 23, 1997 – **Exhibit 25**
- International Publication No. WO97/40137 published October 30, 1997 – **Exhibit 26**
- International Publication No. WO97/41208 published November 6, 1997 – **Exhibit 27**
- International Publication No. WO98/20731 published May 22, 1998 – **Exhibit 28**
- International Publication No. WO98/32333 published July 30, 1998 – **Exhibit 29**

- International Publication No. WO98/51317 published November 19, 1998 – **Exhibit 30**
- International Publication No. WO99/01145 published January 14, 1999 – **Exhibit 31**
- International Publication No. WO99/03973 published January 28, 1999 – **Exhibit 32**
- International Publication No. WO99/11789 published March 11, 1999 – **Exhibit 33**
- Bastard, J. P. et al., "A Mini-Liposuction Technique Adapted to the Study of Human Adipocyte Glucose Transport System," *Diabetologia*, 36(Suppl. 1):A135, 1993 – **Exhibit 34**
- Caplan, Arnold I., "The Mesengenic Process," *Clinics in Plastic Surgery*, 21:429-35, 1994 – **Exhibit 35**
- Crandall, David L. et al., "Identification of Estrogen Receptor β RNA in Human Breast and Abdominal Subcutaneous Adipose Tissue," *Biochemical and Biophysical Research Communications*, 248:523-6, 1998 – **Exhibit 36**
- Hauner, Hans et al., "Promoting Effect of Glucocorticoids on the Differentiation of Human Adipocyte Precursor Cells Cultured in a Chemically Defined Medium," *Journal of Clinical Investigation*, 84:1663-70, 1989 – **Exhibit 37**
- Hauner H. et al., "Glucocorticoids and Insulin Promote the Differentiation of Human Adipocyte Precursor Cells into Fat Cells," *Journal of Clinical Endocrinology and Metabolism*, 64:832-5, 1987 – **Exhibit 38**
- Johnson, P. R. et al., "Uncontrolled adipocyte proliferation is not the primary lesion in the genetically-obese Zucker rat," *International Journal of Obesity*, 5:563-70, 1981 – **Exhibit 39**
- Killinger, D. W. et al., "Influence of Adipose Tissue Distribution on the Biological Activity of Androgens," *Annals New York Academy of Sciences*, 595:199-211, 1990 – **Exhibit 40**
- Killinger, Donald W. et al., "The Relationship Between Aromatase Activity and Body Fat Distribution," *Steroids*, 50:61-72, 1987 – **Exhibit 41**
- Lafontan, M. et al., "Réflexions sur une nouvelle approche de chirurgie plastique réparatrice: la réimplantation de fragments de tissu adipeux prélevés par liposuccion," *Ann. Chur. Plast. Esthet.*, 34:77-81, 1989 – **Exhibit 42**
- Lam, Anson and Ronald Moy, "The Potential for Fat Transplantation," *J. Dermatol. Surg. Oncol.*, 18:432-4, 1992 – **Exhibit 43**

- Lecoeur, L. and J. P. Ouhayoun, "*In vitro* induction of osteogenic differentiation from non-osteogenic mesenchymal cells," *Biomaterials*, 18:989-93, 1997 – **Exhibit 44**
- Loncar, D., "Ultrastructural analysis of differentiatioin of rat endoderm *in vitro*. Adipose vascular-stromal cells induce endoderm differentiation, which in turn induces differentiation of the vascular-stromal cells into chondrocytes," *J. Submicrosc. Cytol. Pathol.*, 24:509-19, 1992 – **Exhibit 45**
- Novakofski, Jan E., "Primary Cell Culture of Adipose Tissue," *Biology of the Adipocyte: Research Approaches*, Van Nostrand Reinhold Company, NY, 1987 160-97 – **Exhibit 46**
- Pedersen, S. B. et al., "Identification of oestrogen receptors and oestrogen receptor mRNA in human adipose tissue," *European Journal of Clinical Investigation*, 26:262-9, 1996 – **Exhibit 47**
- Pettersson, Per et al., "Adipocyte Precursor Cells in Obese and Nonobese Humans," *Metabolism*, 34:808-12, 1985 – **Exhibit 48**
- Ramsay, T. G. et al., "Pre-Adipocyte Proliferation and Differentiation in Response to Hormone Supplementation of Decapitated Fetal Pig Sera," *J. Anim. Sci.*, 64:735-44, 1987 – **Exhibit 49**
- Rubens, F. D. et al., "Tissue Factor Expression by Cells Used for Sodding of Prosthetic Vascular Grafts," *Journal of Surgical Research*, 72:22-8, 1997 – **Exhibit 50**
- Šmahel, J., "Aspiration lipectomy and adipose tissue injection: pathophysiologic commentary," *European Journal of Plastic Surgery*, 14:126-31, 1991 – **Exhibit 51**
- Springhorn, Jeremy P. et al., "Human Capillary Endothelial Cells from Abdominal Wall Adipose Tissue: Isolation Using an Anti-Pecam Antibody," *In Vitro Cellular & Developmental Biology-Animal*, 31:473-81, 1995 – **Exhibit 52**
- Tavassoli, Mehdi, "In Vivo Development of Adipose Tissue Following Implantation of Lipid-Depleted Cultured Adipocyte," *Experimental Cell Research*, 137:55-62, 1982 – **Exhibit 53**

- Williams, John T. et al., "Cells Isolated from Adult Human Skeletal Muscle Capable of Differentiating into Multiple Mesodermal Phenotypes," *The American Surgeon*, 65:22-6, 1999 – **Exhibit 54**
- Williams, Stuart K. et al., "Liposuction-derived human fat used for vascular graft sodding contains endothelial cells and not mesothelial cells as the major cell type," *Journal of Vascular Surgery*, 19:916-23, 1994 – **Exhibit 55**
- Włodarski, Krzysztof H., "Section III. Basic Science and Pathology. Properties and Origin of Osteoblasts," *Clinical Orthopaedics and Related Research*, 252:276-93, 1990 – **Exhibit 56**

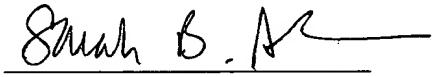
This statement should be considered because it is submitted before the mailing date of the first Office Action on the merits according to 37 C.F.R. §1.97(b)(3). In accordance with 37 C.F.R. §1.98(d), copies of Exhibit 1-18 are not provided herein as they have been previously provided before. Copies of Exhibits 19-56 are provided herein.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that the references have been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. § 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any additional fee is required, authorization is hereby given to charge the amount of any such fee, or credit any overpayment, to Deposit Account No. 50-0306.

Respectfully submitted,



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I hereby certify that this paper or fee is being deposited with the United States Postal as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231 on July 29, 2002.

By: Renato Marco P. Domingo
Name: Renato Marco P. Domingo

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

We are transmitting herewith the attached:

- ☒ Transmittal sheet, in duplicate, containing Certificate under 37 CFR 1.8
- ☒ Supplemental Information Disclosure Statement (37 C.F.R. §1.97(b)(3)) (5 pages)
- ☒ Form 1449 (Information Disclosure Statement) (3 sheets)
- ☒ Exhibits 19-56 (References)
- ☒ Return postcard

Please charge any additional fees or credit overpayment to Deposit Account No. 50-0306. A duplicate of this sheet is enclosed.

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